

HULL 162, SS "INDEPENDENCE"  
OCT. 24, 1918.

BETHLEHEM SHIPBUILDING CORP. LTD.  
UNION PLANT. POTRERO WORKS.

S.S. INDEPENDENCE

Profile  
of vessel as built

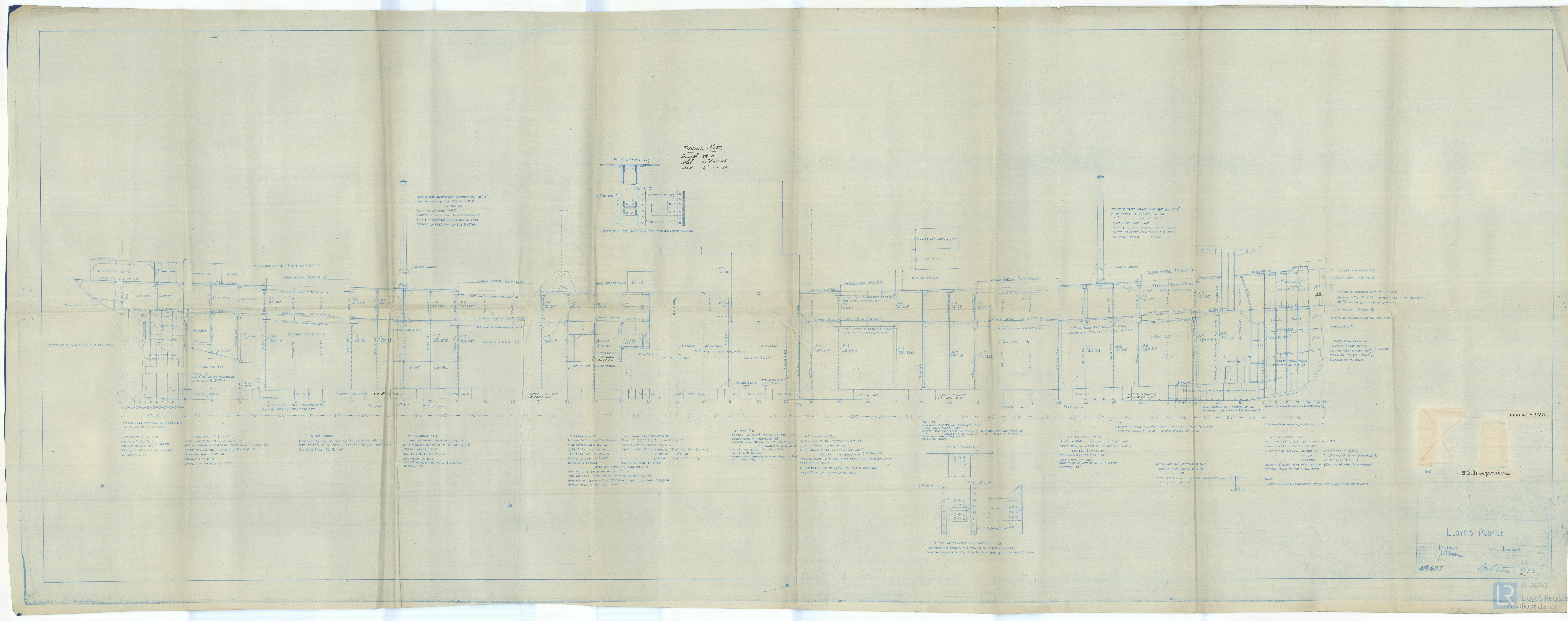
— Hull No 162 —

Bethlehem S.D. Corporation  
Alameda.  
California

San Fr Report No 2893.



005961-005980-0083



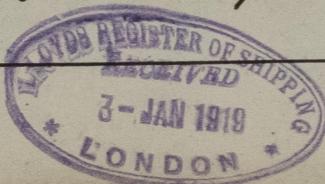
S.S. INDEPENDENCE.

Deck Plan  
of vessel as built

— Hull N° 162 —

Bethlehem S.S. Corp.  
Alameda.  
California.

San Jo Report N° 2893.



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Lloyd's Register  
Foundation

LENGTH B.P.	440'-ft'
BEAM- M'L'D	36'-0"
DEPTH TO UPPER DK - M'L'D.	26'-6"
" - SHELTER - "	38'-0"
TRANSVERSE NUMERAL	86
LONGITUDINAL	37840
EQUIPMENT	41236

S.S. INDEPENDENCE

1606 Schubert



S.S. 'INDEPENDENCE'

Midship Section  
of vessel as built

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Alameda.  
California.

Santos Report No 2893.



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Foundation



	S. To ref.
No 162. "Independence."	No 2893.
No 163 "Victorous"	No 2898.
No 164. "Defiance"	No 2849.
No 165. "Invincible"	No 2899.
No 166. "Courageous"	No 2938.
No 167. "Triumph"	No 2995.
No 168. "Eclipse"	No 2981.
No 169. "Archer"	No 3018.
No 170. "Deadfast"	No 3094.
No 215. "Heffron"	No 3089.
<u>No 216. "Hegira"</u>	<u>No. 3103.</u>



Union Iron Co.  
Nos.  
No. 162 to 170. incl. & 215 & 216.

Amended sketch of stern frame.  
& rudder.

SCHEDULE FOR ONE RUDDER & STERN FRAME	
MARK	DESCRIPTION
A	Upper Part Stern Frame Cast Steel Pattern No. A-98644
B	Lower Part Stern Frame " " " " B-98645
C	Upper Rudder Stock Wrot Steel
D	Lower Rudder Stock "
E	Upper Rudder Arm "
F	Intermediate Rudder Arm "
G	Intermediate Rudder Arm "
H	Lower Rudder Arm "
I	Lower Rudder Arm "
J	18" Rudder Plate "
K	Upper Pintle "
L	Intermediate Pintle "
M	Lower Pintle "
N	Upper Pintle "
O	Intermediate Pintle "
P	Lower Pintle "
Q	Upper Pintle "
R	Intermediate Pintle "
S	Lower Pintle "
T	Coupling Bolt "
U	Upper Pintle "
V	Fillister Head Mch. Screw "
W	18" Feathers Brass
X	18" Feathers Steel
Y	18" Feathers Brass
Z	18" Feathers Steel

Area of Rudder abeam center Line of Pintles 170.76 sq ft  
 Center of Gravity of Area abeam center Line of Pintles 3.8304  
 Lloyds Nominal AxD = 654.123  
 Speed - Above 10 and not exceeding 12 Knots  
 Dia. of Rudder Stock as per Lloyds = 11 1/2" Dia.  
 Area of Rudder Stock increased 10% = 12" Dia.  
 Area of Immersed Longitudinal Plane at Draft 12,540 sq ft  
 Coeff. of Area of Rudder to immersed Long plane .0136

HULL NO.	WHEEL NO.	DATE	R/WANTED	NAME	CONSTRUCTED FOR
169	1700-12	1917			
168	1700-12	1917			
167	1700-12	1917			
166	1700-12	1917			
165	1700-12	1917			
164	1700-12	1917			
163	1700-12	1917			
162	1700-12	1917			

UNION IRON WORKS CO.

SHIPBUILDERS AND ENGINEERS

SAN FRANCISCO, CALIF.

HULL DEPT.

### STERN FRAME AND RUDDER

SCALE:  $\frac{1}{4}$ -1'-1/2"-3'-12" EFT DATE: APRIL 21-1917

DRAWN BY A.K.N. & J.T.S. | TRACED BY A.K.N. | CHECKED BY J.T.S.

SHEET NO. 48664 | DRAWN BY A.K.N. | CASE NO. 1032

